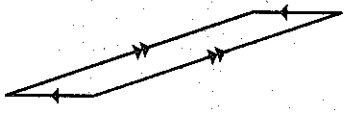
LESSON 6.2

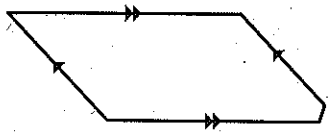
NAME _____ DATE _____

Practice A

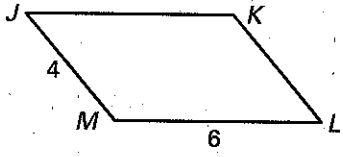
For use with pages 309–315

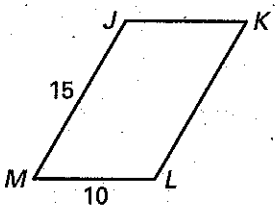
Decide whether the figure is a parallelogram. If it is not, explain why.

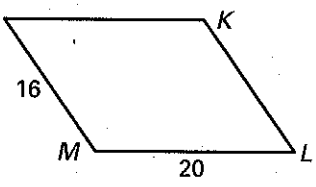
1. 

2. 

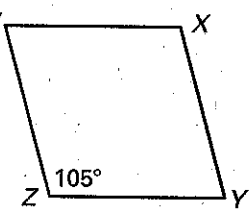
***JKLM* is a parallelogram. Find *JK* and *KL*.**

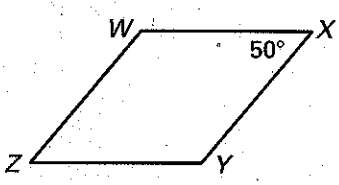
3. 

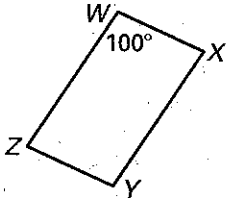
4. 

5. 

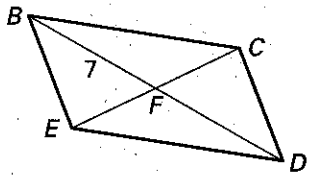
***WXYZ* is a parallelogram. Find the missing angle measures.**

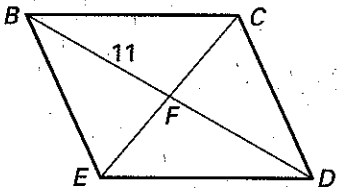
6. 

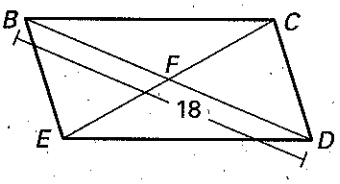
7. 

8. 

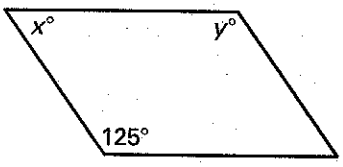
***BCDE* is a parallelogram. Find *DF*.**

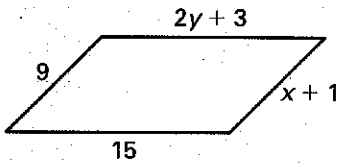
9. 

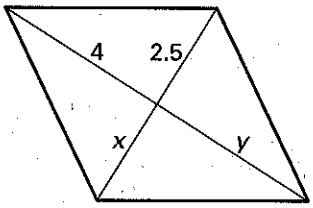
10. 

11. 

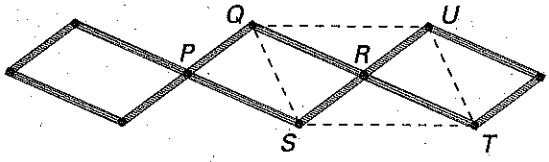
Find the values of *x* and *y* in the parallelogram.

12. 

13. 

14. 

The diagram at the right shows an adjustable coat rack.



15. For $\square PQRS$, name a side that is congruent to $\overline{PS}$.

16. For $\square PQRS$, name an angle that is congruent to $\angle Q$.

17. The points Q, U, T, and S form a parallelogram. Use what you know about the diagonals of a parallelogram to name a length equal to RU.

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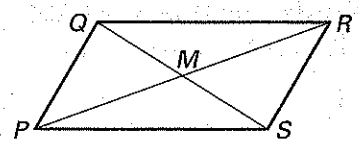
Practice B

For use with pages 309–315

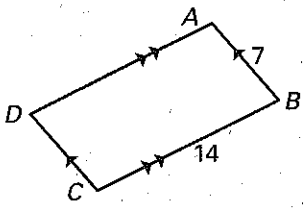
Write the statement of each theorem in symbols for $\square PQRS$, where $m\angle SPQ = m\angle QRS = x°$ and $m\angle RSP = m\angle PQR = y°$.



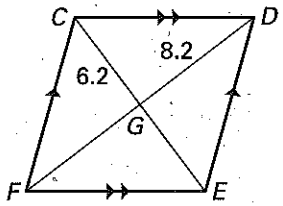
1. If a quadrilateral is a parallelogram, then its opposite sides are congruent.
2. If a quadrilateral is a parallelogram, then its opposite angles are congruent.
3. If a quadrilateral is a parallelogram, then its consecutive angles are supplementary.
4. If a quadrilateral is a parallelogram, then its diagonals bisect each other.

Find the lengths or angle measures.

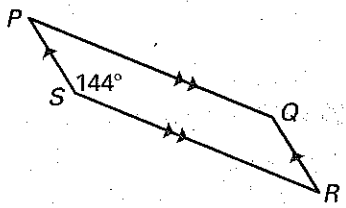
5. Find DA and DC.



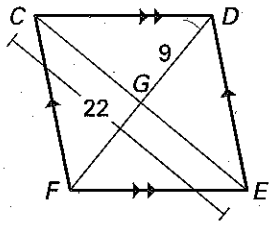
6. Find GE and DF.



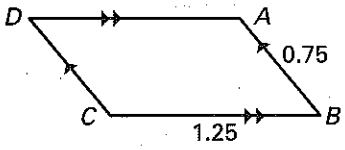
7. Find $m\angle P$, $m\angle Q$, and $m\angle R$.



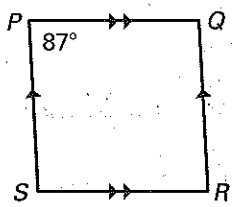
8. Find GE and GF.



9. Find DA and DC.

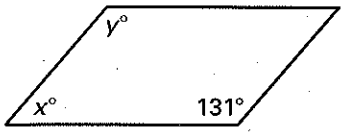


10. Find $m\angle Q$, $m\angle R$, and $m\angle S$.

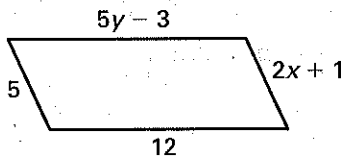


Find the values of x and y in the parallelogram.

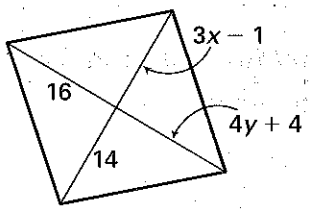
11.



12.

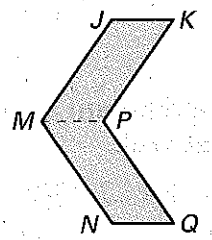


13.



The chevron symbol shown at the right is used to direct traffic flow.

14. For $\square JKPM$, name two pairs of congruent sides.
15. For $\square MPQN$, name two pairs of congruent angles.
16. For $\square JKPM$, name two angles that are supplementary to $\angle K$.



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